

## Curriculum Vitae

### **RALF SCHOEPFER**

*Born* August 30, 1956, Stuttgart, West Germany

#### *Education*

**Universitaet Tuebingen/Germany, 1976-1982**

Medizinische Fakultaet. Obtained M.D. degree (Approbation als Arzt)

**On leave: Universite de Bordeaux/France, 1981**

Faculte de Medecine, DAAD Studentship

**Universite de Nice/France, 1978-1979**

Faculte de Medecine

**Hopital de Dax/France, 1983**

Internship in bone surgery

**Universitaet Tuebingen/Germany, 1978-1986**

Fakultaet fuer Chemie und Pharmazie, obtained degree: Diplom Biochemie

Diplom-Thesis: Nucleotid sequence of a DP $\beta$ -homolog MHC class II gene of the Smh complex of *Spalax ehrenbergii*

**Max-Planck-Institut fuer Biologie, Tuebingen, 1985-1986**

Department of Immunogenetics, preparation of M.D. thesis

(Dr. Med., magna cum laude, awarded by Medizinische Fakultaet, Universitaet Tuebingen)

Project: Molecular biology of the major histocompatibility complex

**The Salk Institute for Biological Studies, March 1986-present**

Postdoctoral Fellow, Receptor Biology Laboratory

DFG Stipendium, October 1986-1987

Boehringer Ingelheim Fonds fellowship, August 1988-1990

#### *Professional Affiliations*

Gesellschaft fuer Biologische Chemie

Society for Neuroscience

#### *Invited Papers Presented At the Following Meetings*

Oct 1989 EMBO Course: Analysis and expression of neurotransmitter receptors, Heidelberg, Germany

Apr 1989 Drug Action at the Molecular Level: Differences between Agonists and Antagonists, Titisee, Germany

Oct 1988 Advanced Research Workshop: Molecular Biology of Neuroreceptors and Ion Channels, Santorini, Greece

## Publications

1. Schoepfer R. (1986) H-2 Komplex und t-Komplex der Maus: Polymorphismus des A $\beta$  Gens von t-Chromosomen aus Wildmauspopulationen. M.D. Thesis, Universitaet Tuebingen.
2. Klein J., M. Golubic, O. Budimir, R. Schoepfer, M. Kasahara, and F. Figueroa (1986) On the origin of t-chromosomes. Pages 239-246 in: *Current Topics in Microbiology and Immunology 127, The Wild Mouse in Immunology*, M. Potter, J.H. Nadeau, and M.P. Cancro (Eds.), Springer-Verlag, Berlin.
3. Schoepfer R., F. Figueroa, D. Nizetic, E. Nevo, and J. Klein (1987) Evolutionary diversification of class II P loci in the Mhc of the mole-rat *Spalax ehrenbergi*. *Molecular Biology and Evolution* 4, 287-299.
4. Golubic M., O. Budimir, R. Schoepfer, M. Kasahara, W.E. Mayer, F. Figueroa, and J. Klein (1987) Nucleotide sequence analysis of class II genes borne by mouse t chromosomes. *Genet. Res. Camb.* 50, 137-146.
5. Whiting P.J., R. Schoepfer, L.W. Swanson, D.M. Simmons, and J. Lindstrom (1987) Functional acetylcholine receptor in PC12 cells reacts with a monoclonal antibody to brain nicotinic receptors. *Nature* 327, 515-518.
6. Lindstrom J., R. Schoepfer, and P. Whiting (1987) Molecular studies of the neuronal nicotinic acetylcholine receptor family. *Molec. Neurobiol.* 1(4), 281-337.
7. Schoepfer R., M. Luther, and J. Lindstrom (1988) The human medulloblastoma cell line TE671 expresses a muscle-like acetylcholine receptor: Cloning of the  $\alpha$  subunit cDNA. *FEBS Lett.* 225(2), 235-240.
8. Schoepfer R., P. Whiting, F. Esch, R. Blacher, S. Shimasaki, and J. Lindstrom (1988) cDNA clones coding for the structural subunit of a chicken brain nicotinic acetylcholine receptor. *Neuron* 1, 241-248.
9. Luther M., R. Schoepfer, P. Whiting, B. Casey, Y. Blatt, M.S. Montal, M. Montal, and J. Lindstrom (1989) A muscle acetylcholine receptor is expressed in the human cerebellar medulloblastoma cell line TE671. *J. Neurosci.* 9(3), 1082-1096.
10. Lindstrom J., P. Whiting, R. Schoepfer, M. Luther, and B. Casey (1988) Structure of neuronal nicotinic receptors. Pages 159-172 in: *Nicotinic Acetylcholine Receptors in the Nervous System, NATO-ASI Series H, Vol. 25*, F. Clementi, C. Gotti, and E. Sher (Eds.), Springer-Verlag, Heidelberg.
11. Lindstrom J., P. Whiting, R. Schoepfer, M. Luther, and M. Das (1989) Structure of nicotinic acetylcholine receptors from muscle and neurons. Pages 245-266 in: *Computer-Assisted Modeling of Receptor-Ligand Interactions: Theoretical Aspects and Applications to Drug Design*, R. Rein and A. Golombek (Eds.), Alan R. Liss, Inc., New York.

12. Schoepfer R., P. Whiting, M. Luther, K. Keyser, H. Karten, and J. Lindstrom (1989) Structure of muscle and neuronal nicotinic acetylcholine receptors. Pages 37-53 in: *Molecular Biology of Neuroreceptors and Ion Channels, NATO-ASI Series H, Vol. 32*, A. Maelicke (Ed.), Springer-Verlag, Heidelberg.
13. Nahon J.-L., R. Schoepfer, and W. Vale (1989) cDNA sequence of salmon melanin-concentrating hormone exhibits strong similarities with 7SL RNA. *Nucl. Acids Res.* 17, 3598
14. Nahon J.-L., F. Presse, J. Vaughan, W. Fischer, J. Bittencourt, C. Hoeger, R. Schoepfer, J. Rivier, P. Sawchenko, and W. Vale (in press) Characterization of mammalian melanin-concentrating hormones and their precursors. In: *Proceedings of the 4th Congress of the European Neuroendocrine Association*, Excerpta Medical International Congress Series.
15. Whiting P., R. Schoepfer, S. Shimasaki, F. Esch, K. Keyser, H. Karten, and J.M. Lindstrom (submitted) Differential expression of nicotinic acetylcholine receptor subtypes in brain and retina.
16. Schoepfer R., S.W. Halvorsen, W.G. Conroy, P. Whiting, and J. Lindstrom (1989) Antisera against an acetylcholine receptor  $\alpha 3$  fusion protein bind to ganglionic but not to brain nicotinic acetylcholine receptors. *FEBS Lett.* 257(2), 393-399.
17. Schoepfer R., W.G. Conroy, P. Whiting, M. Gore, and J. Lindstrom (in press) Brain  $\alpha$ -bungarotoxin-binding protein cDNAs and mAbs reveal subtypes of this branch of the ligand gated ion channel gene superfamily. *Neuron*
18. Deihl R.E., N. Gee, P. Whiting, J. Potter, C.I. Ragan, D. Linemeyer, R. Schoepfer, C. Bennett, and R.A.F. Dixon (in press) Cloning and expression of bovine brain inositol monophosphatase. *J. Biol. Chem.*
19. Lindstrom J., R. Schoepfer, W.G. Conroy, and P. Whiting (in press) Structural and Functional Heterogeneity of Nicotinic Receptors. In: *The Biology of Nicotine Dependence*, Ciba Foundation Symposium, 152, London
20. Lindstrom J., R. Schoepfer, W. Conroy, P. Whiting, M. Das, M. Saedi, and R. Anand (in press) The nicotinic acetylcholine receptor gene family: Structure of nicotinic receptors from muscle and neurons and neuronal  $\alpha$ -bungarotoxin-binding proteins. In: *Neuroreceptor Mechanisms in Brain*, S. Kito, T. Segawa, and R. Olson (Eds.), Plenum, NY
21. Geuder K.I., R. Schoepfer, T. Kirchner, A. Marx, and H.K. Müller-Hermelink (1989) The gene of the  $\alpha$ -subunit of the acetylcholine receptor: Molecular organisation and transcription in myasthenia-associated thymomas. *Thymus* 14, 179-186

## Abstracts

1. Luther M., R. Schoepfer, P. Whiting, M. Montal, and J. Lindstrom (1987) Purification and cloning of the muscle-like nicotinic acetylcholine receptor from the human medulloblastoma cell line TE671. *Soc. Neurosci. Abstr.* 13(2), 260.10.
2. Schoepfer R., M. Luther, and J. Lindstrom (1987) Cloning of the  $\alpha$  subunit cDNA of the muscle-like nicotinic acetylcholine receptor from the human medulloblastoma cell line TE671. *EMBO Symposium Abstr.*, p. 146.
3. Schoepfer R., P. Whiting, and J. Lindstrom (1988) cDNA clones coding for both subunits of a chicken brain nicotinic receptor corresponding to the primary nicotinic receptor subtype of mammalian brain. *NATO Adv. Res. Workshop Abstr.*, p. 44.
4. Schoepfer R., P. Whiting, W.G. Conroy, and J. Lindstrom (1989) cDNA clones coding for subunits of the neuronal  $\alpha$ -bungarotoxin-binding protein. *Soc. Neurosci. Abstr.* 15(1), 203.3.